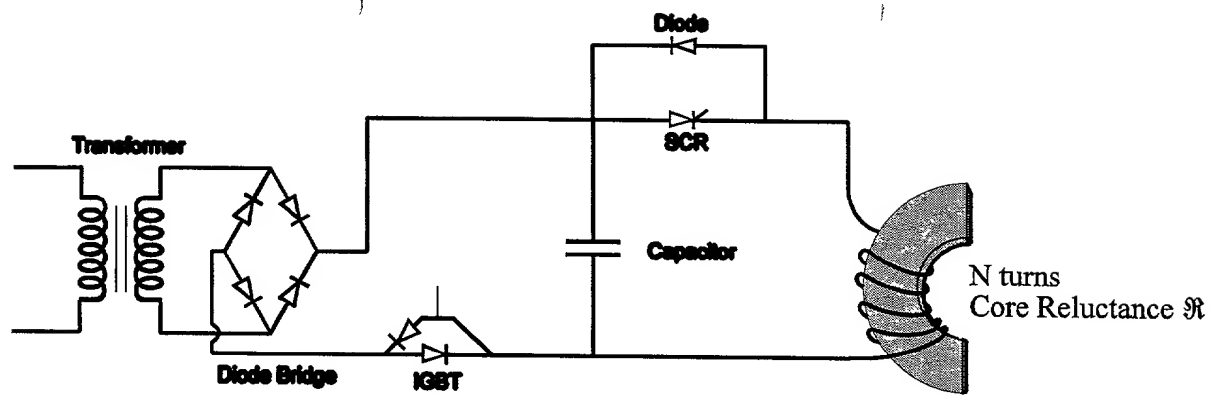
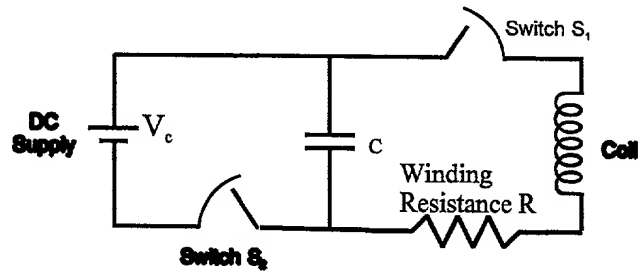


**Fig. 1**

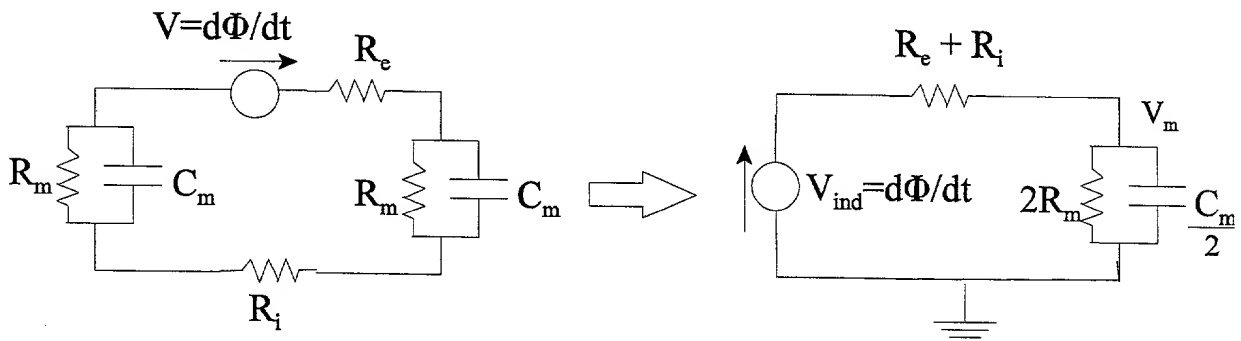
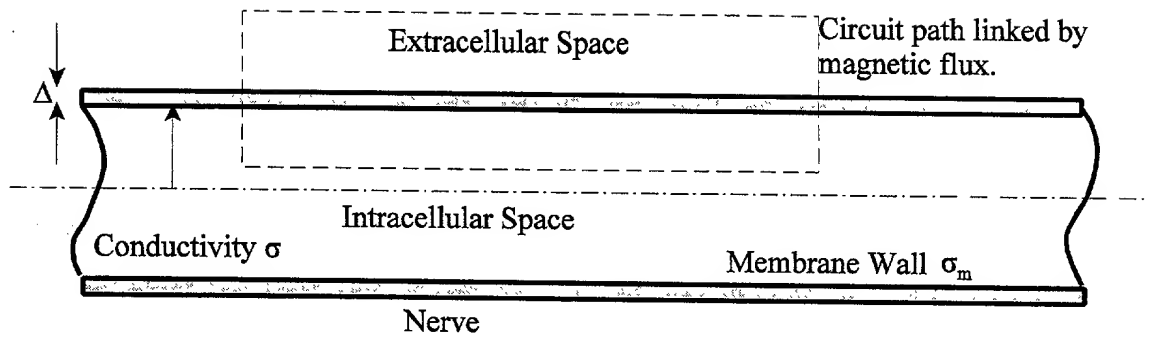


(a) Full Circuit

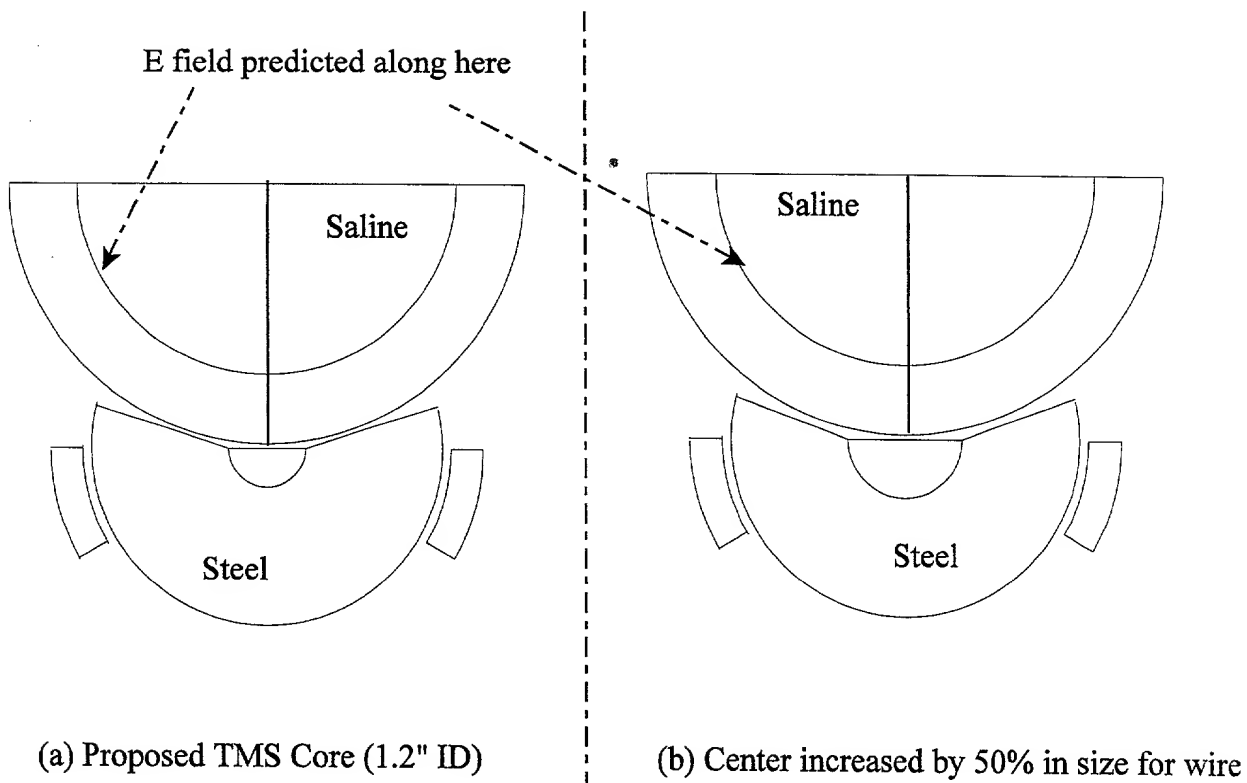


(b) Simplified equivalent circuit

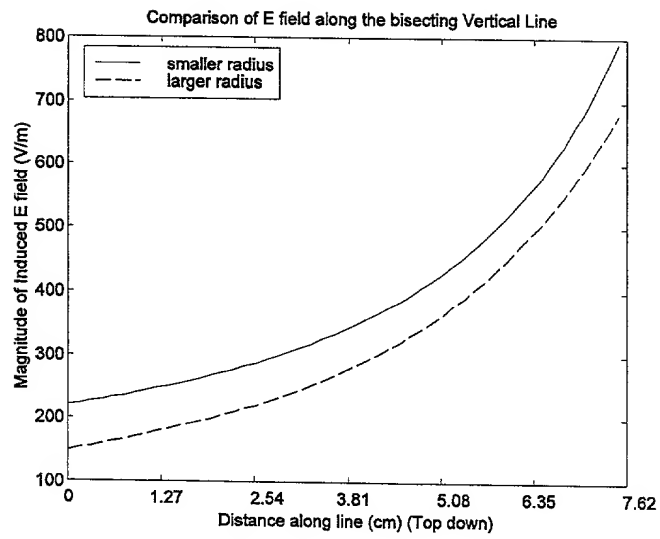
**Fig. 2**



**Fig. 3**

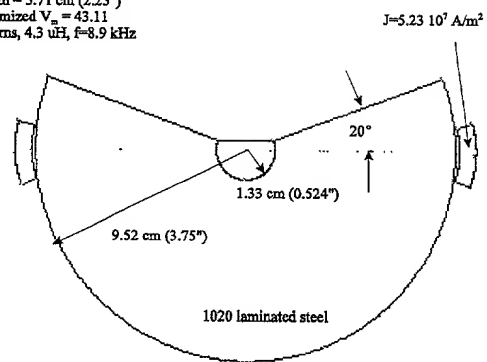


**Fig. 4**



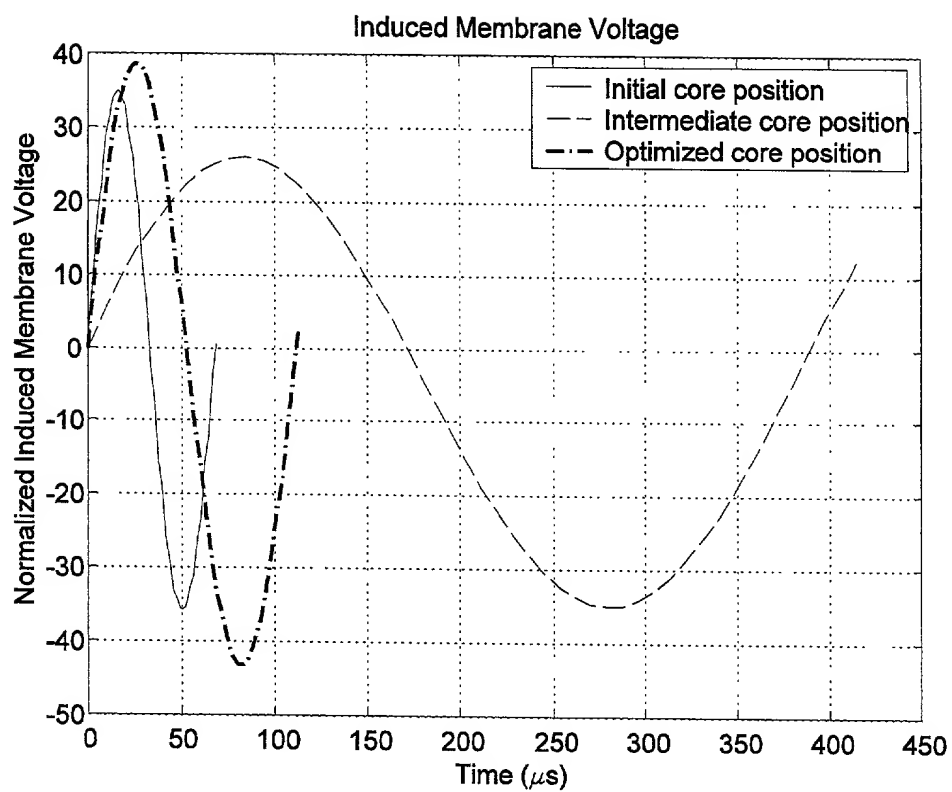
**Fig. 5**

Litz wire core comprised of 1020 steel  
 depth = 5.71 cm (2.25")  
 optimized  $V_m = 43.11$   
 6 turns, 4.3 uH,  $f = 8.9$  kHz



**Fig. 6**

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**Fig. 7**